



**NOAA TECHNICAL MEMORANDUM
NMFS-SEFC-280**

**BIBLIOGRAPHY OF NMFS GALVESTON
LABORATORY PUBLICATIONS AND REPORTS
ON SEA TURTLES**

1978 - 1991

BY

Charles W. Caillouet, Jr.

**U.S. DEPARTMENT OF COMMERCE
Robert A. Mosbacher, Secretary**

**NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
John A. Knauss, Administrator**

**NATIONAL MARINE FISHERIES SERVICE
William W. Fox, Jr., Assistant Administrator for Fisheries**

APRIL 1991

This Technical Memorandum series is used for documentation and timely communication of preliminary results, interim reports, or similar special-purpose information. Although the memoranda are not subject to complete formal review, editorial control, or detailed editing, they are expected to reflect sound professional work.

The National Marine Fisheries Service (NMFS) does not approve, recommend or endorse any proprietary product or proprietary material mentioned in this publication. No reference shall be made to NMFS, or to this publication furnished by NMFS, in any advertising or sales promotion which would indicate or imply that NMFS approves, recommends, or endorses any proprietary product or proprietary material mentioned herein or which has as its purpose any intent to cause directly or indirectly the advertised product to be used or purchased because of this NMFS publication.

This report should be cited as follows:

Caillouet, Charles W., Jr. 1991. Bibliography of NMFS Galveston Laboratory publications and reports on sea turtles 1978 - 1991. NOAA Technical Memorandum NMFS-SEFC-280, ii plus 9p.

Copies may be obtained by writing:

National Technical Information Service
5285 Port Royal Road
Springfield, VA 22161
Phone: 703-487-4600

INTRODUCTION

In 1978, the National Marine Fisheries Service (NMFS) Galveston Laboratory initiated research involving experimental head starting (captive rearing) of Kemp's ridley sea turtle (Lepidochelys kempi). Since that time, the laboratory has continued head starting, but has expanded its research on sea turtles to include a wide variety of topics, both in the field and in the laboratory.

The purpose of this report is to list the citations of sea turtle publications and reports by the Galveston Laboratory to bring them to the attention of potential users and to provide information concerning how copies or reprints might be obtained. For example, NOAA Technical Memoranda in the bibliography can be obtained from the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA 22161 (refer to the accession number when ordering copies).

PUBLICATIONS AND REPORTS

Caillouet, C. W., Jr. 1984. Essai de prevention de l'extinction de la Tortue de Kemp. Les Carnets de Zoologie (Bull. Zool. Soc. Quebec) 44(2):28-34. No reprints available.

Caillouet, C. W., Jr. 1986. Aren't sea turtles excellent fishes? Letters to the Editor, Fisheries 11(1):65. No reprints available.

Caillouet, C. W., Jr. 1987. Report on efforts to prevent extinction of Kemp's ridley sea turtle through head starting. NOAA Technical Memorandum NMFS-SEFC-188, i plus 20 p. Available from NTIS (Accession No. PB87180774/AS).

Caillouet, C. W., Jr. 1990. Guest editorial: sea turtle conservation and management, the need for a unit stock approach. Marine Turtle Newsletter No. 49, p. 3-4. No reprints available.

Caillouet, C. W., Jr. and M. J. Duronslet. 1985. Guest editorial - sea turtle sex ratios and incubation temperature: are we on the right track?. Marine Turtle Newsletter No. 35, p. 14-16. No reprints available.

Caillouet, C. W., Jr., M. J. Duronslet, A. M. Landry, Jr. and E. K. Stabenau. 1988. Stockpiling sea turtle carcasses. Marine Turtle Newsletter No. 42, p. 11-12. No reprints available.

Caillouet, C. W., Jr., C. T. Fontaine, S. A. Manzella, T. D. Williams and D. B. Revera. 1986. Scutes reserved for living tags. Marine Turtle Newsletter No. 36, p. 5-6. No reprints available.

Caillouet, C. W., Jr., C. T. Fontaine, T. D. Williams, S. A. Manzella, K. L. W. Indelicato, M. J. Duronslet, D. B. Revera, A. M. Landry, Jr. and P. J. Howes. 1987. The Kemp's ridley sea turtle head start research project: an annual report for fiscal year 1986. NOAA Technical Memorandum NMFS-SEFC-192, i plus 28 p., 24 Tables and 1 Appendix. Available from NTIS (Accession No. PB87194395).

Caillouet, C. W., Jr., C. T. Fontaine, T. D. Williams, S. A. Manzella, A. M. Landry, Jr., K. L. Indelicato, M. J. Duronslet and D. B. Revera. 1988. Can we save Kemp's ridley sea turtle? Believe it or not! p. 20-43. In: Peterson, K. H. (Editor), 10th International Herpetological Symposium on Captive Propagation and Husbandry, Zoological Consortium Inc., Thurmont, MD, 206 p. No reprints available.

Caillouet, C. W., Jr., C. T. Fontaine, T. D. Williams, S. A. Manzella, D. B. Revera, D. B. Koi, K. L. W. Indelicato, M. G. Tyree, J. K. Leong, M. J. Duronslet and K. T. Marvin. 1986. The Kemp's ridley sea turtle head start research project: an annual report for fiscal year 1985. NOAA Technical Memorandum NMFS-SEFC-174, ii plus 37 p., 29 Tables, 1 Figure and 5 Appendices. Available from NTIS (Accession No. PB87217569).

Caillouet, C. W., Jr. and D. B. Koi. 1985. Patterns and variability in first-year growth in weight of captive-reared Kemp's ridley sea turtle: a graphical analysis. NOAA Technical Memorandum NMFS-SEFC-164, i plus 4 p. and 52 figures. Available from NTIS (Accession No. PB86105178).

Caillouet, C. W., Jr., D. B. Koi, C. T. Fontaine, T. D. Williams, W. J. Browning and R. M. Harris. 1986. Growth and survival of Kemp's ridley sea turtle, Lepidochelys kempi, in captivity. NOAA Technical Memorandum NMFS-SEFC-186, iii plus 34 p., 12 Tables and 7 Figures. Available from NTIS (Accession No. PB87157350/AS).

Caillouet, C. W., Jr. and A. M. Landry, Jr. (Editors). 1989. Proceedings of the First International Symposium on Kemp's Ridley Sea Turtle Biology, Conservation and Management. Texas A&M University, Sea Grant College Program, TAMU-SG-89-105, vi plus 260 p. Available from Texas A&M University, Sea Grant

College Program, P. O. Box 1675, Galveston, Texas 77553-1675.

Caillouet, C. W., Jr., S. A. Manzella, C. T. Fontaine, T. D. Williams, M. G. Tyree and D. B. Koi. 1989. Feeding, growth rate and survival of the 1984 year-class of Kemp's ridley sea turtles (Lepidochelys kempi) reared in captivity, p. 165-177. In: Caillouet, C. W., Jr. and A. M. Landry, Jr. (Editors), Proceedings of the First International Symposium on Kemp's Ridley Sea Turtle Biology, Conservation and Management, Texas A&M University, Sea Grant College Program, TAMU-SG-89-105, vi plus 260 p. Available from Texas A&M University, Sea Grant College Program, P. O. Box 1675, Galveston, Texas 77553-1675.

Caillouet C. W., Jr. and D. B. Revera. 1985. Brood stock of captive-reared Kemp's ridley to be listed in the International Species Inventory system. Marine Turtle Newsletter No. 34, p. 3-6. No reprints available.

Caillouet, C. W., Jr., D. B. Revera, M. J. Duronslet and J. Brucks. 1989. Dermatoglyphic patterns on Kemp's ridley sea turtle flippers: can they be used to identify individuals?, p. 146-150. In: Caillouet, C. W., Jr. and A. M. Landry, Jr. (Editors). Proceedings of the First International Symposium on Kemp's Ridley Sea Turtle Biology, Conservation and Management. Texas A&M University, Sea Grant College Program, TAMU-SG-89-105, vi plus 260 p. Available from Texas A&M University, Sea Grant College Program, P. O. Box 1675, Galveston, Texas 77553-1675.

Clary, J. C., III. and J. K. Leong. 1984. Disease studies aid Kemp's ridley sea turtle head start research. Herpetological Review 15(3):69-70. No reprints available.

Demas, S., M. Duronslet, S. Wachtel, C. Caillouet and D. Nakamura. 1990. Sex-specific DNA in reptiles with temperature sex determination. The Journal of Experimental Zoology 253:319-324. Reprints availale from S. Wachtel, Division of Reproductive Genetics, Departments of Obstetrics and Gynecology, University of Tennessee, Memphis, TN 38105.

Duronslet, M. J., C. W. Caillouet, Jr., C. T. Fontaine, D. B. Revera, T. D. Williams, J. A. Williams, S. A. Manzella, A. M. Landry, Jr. and E. K. Stabenau. 1989. Kemp's ridley head start and sea turtle research at the Galveston Laboratory: annual report-fiscal year 1988. NOAA Technical Memorandum NMFS-SEFS-223, iii plus 40 p. and 19 Tables. Available from NTIS (Accession No. PB90103920/AS).

Duronslet, M., D. Nakamura, C. W. Caillouet and S. Demas. 1989. Sex identification in young Kemp's ridley sea turtles. Marine Turtle Newsletter No. 47, p. 2-3. No reprints available.

Duronslet, M. J., D. B. Revera and K. M. Stanley. 1991. Man-made marine debris and sea turtle strandings on beaches of the upper Texas and southwestern Louisiana coasts, June 1987 through September 1989. NOAA Technical Memorandum NMFS-SEFC-279 (in press).

Fontaine, C. T. and C. W. Caillouet, Jr. 1985. The Kemp's ridley sea turtle head start research project: an annual report for fiscal year 1984. NOAA Technical Memorandum NMFS-SEFC-152, ii plus 13 p. and 3 Tables. Available from NTIS (Accession No. PB85194686).

Fontaine, C. T., M. J. Duronslet, D. B. Revera, T. D. Williams, J. A. Williams, S. A. Manzella, E. K. Stabenau, A. M. Landry, Jr. and C. W. Caillouet, Jr. 1990. Kemp's ridley head start experiment and other sea turtle research at the Galveston Laboratory: annual report - fiscal year 1989. NOAA Technical Memorandum NMFS-SEFC-266, iv plus 28 p., 23 Tables and 5 Figures. Available from the senior author and NTIS (Accession No. PB91106971).

Fontaine, C. T., K. W. Indelicato and J. P. Flanagan. 1990. A congenital lung disorder in a juvenile head started Kemp's ridley sea turtle, Lepidochelys kempi. Herpetological Review 21(4):80-81. Reprints available from the senior author.

Fontaine, C., J. Leong, and C. Caillouet. 1983. Head starting Kemp's ridleys, 1982, p. 22-29. In: Owens, D., D. Crowell, G. Dienberg, M. Grassman, S. McCain, Y. Morris, N. Schwantes and T. Wibbels (Editors). Western Gulf of Mexico Sea Turtle Workshop Proceedings, Texas A&M University, Sea Grant College Program, TAMU-SG-84-105, 74 p. Proceedings available from Texas A&M University, Sea Grant College Program, P. O. Box 1675, Galveston, Texas 77553-1675.

Fontaine, C. T., S. A. Manzella, T. D. Williams, R. M. Harris and W. J. Browning. 1989. Distribution, growth and survival of head started, tagged and released Kemp's ridley sea turtles (Lepidochelys kempi) from year-classes 1978-1983, p. 124-144. In: Caillouet, C. W., Jr. and A. M. Landry, Jr. (Editors), Proceedings of the First International Symposium on Kemp's Ridley Sea Turtle Biology, Conservation and Management, Texas A&M University, Sea Grant College Program TAMU-SG-89-105, vi plus 260 p. Proceedings available from Texas A&M University, Sea Grant College Program, P. O. Box 1675, Galveston, Texas 77553-1675.

Fontaine, C. T., K. T. Marvin, T. D. Williams, W. J. Browning, R. M. Harris, K. L. W. Indelicato, G. A. Shattuck and R. A. Sadler. 1985. The husbandry of hatchling to yearling Kemp's ridley sea turtles (Lepidochelys kempi). NOAA Technical Memorandum NMFS-SEFC-158, iv plus 34 p., 10 Tables, 22 Figures

and 2 Appendices. Available from NTIS (Accession No. PB85241966).

Fontaine, C. T., J. A. Williams and C. W. Caillouet, Jr. 1990. General information about sea turtle research at the NMFS Galveston Laboratory. NOAA Technical Memorandum NMFS-SEFC-259, 9 p. Available from the senior author.

Fontaine, C. T., T. D. Williams and C. W. Caillouet, Jr. 1988. Scutes reserved for living tags: an update. Marine Turtle Newsletter No. 43, p. 8-9. No reprints available.

Fontaine, C. T., T. D. Williams and J. D. Camper. 1987. Head Started Kemp's ridleys tagged with the passive integrated transponder (PIT). Marine Turtle Newsletter. No. 41, p. 6. No reprints available.

Fontaine, C. T., T. D. Williams, S. A. Manzella and C. W. Caillouet, Jr. 1989. Kemp's ridley sea turtle head start operations of the NMFS SEFC Galveston Laboratory, p. 96-110. In: Caillouet, C. W., Jr. and A. M. Landry, Jr. (Editors), Proceedings of the First International Symposium on Kemp's Ridley Sea Turtle Biology, Conservation and Management, Texas A&M University, Sea Grant College Program, TAMU-SG-89-105, vi plus 260 p. Proceedings available from Texas A&M University, Sea Grant College Program, P. O. Box 1675, Galveston, Texas 77553-1675.

Fontaine, C. T., T. D. Williams and D. B. Revera. 1988. Care and maintenance standards for kemp's ridley sea turtles (Lepidochelys kempi) held in captivity. NOAA Technical Memorandum NMFS-SEFC-202, ii plus 17 p. Available from NTIS (Accession No. PB88222013/AS).

Fontaine, C. T., T. D. Williams and C. Turner. 1988. Hatchling Kemp's ridley strands at Galveston Island, Texas. Marine Turtle Newsletter No. 43, p. 8-9. No reprints available.

Gitschlag, G. and M. Renaud. 1989. Sea turtles and the explosive removal of offshore oil and gas structures, p. 67-68. In: Eckert, S. A., K. L. Eckert and T. H. Richardson (Compilers), Proceedings of the Ninth Annual Workshop on Sea Turtle Conservation and Biology, NOAA Technical Memorandum NMFS-SEFC-232, 305 p. Available from NTIS (Accession No. PB90174384).

Grassman, M. A., D. W. Owens, J. P. McVey and R. Marquez M. 1984 Olfactory-based orientation in artificially imprinted sea turtles. Science 224:83-84. Available from the senior author.

Heinly, R. W., E. K. Stabenau, A. M. Landry and M. Duronslet. 1988. Mutilation of stranded sea turtles along the Texas

Coast, p. 33-34. In: Schroeder, B. A. (Compiler), Proceedings of the Eight Annual Workshop on Sea Turtle Conservation and Biology, NOAA Technical Memorandum NMFS-SEFC-214, 136 p. Proceedings available from NTIS (Accession No. PB89163083).

Kloma, E., M. Renaud and G. Gitschlag. 1989. Evaluation of commercial use of TEDs, p. 81. In: Eckert, S. A., K. L. Eckert and T. H. Richardson (Compilers), Proceedings of the Ninth Annual Worshop on Sea Turtle Conservation and Biology, NOAA Technical Memorandum NMFS-SEFC-232, 305 p. Available from NTIS (Accession No. PB90174384).

Kloma, E. F. and J. P. McVey. 1982. Headstarting the Kemp's ridley turtle, Lepidochelys kempi, p. 481-487. In: Bjorndal, K. A. (Editor), Biology and Conservation of Sea Turtles Smithsonian Institution Press, Washington, D. C., 538 p. No reprints available.

Leong, J. K. 1979. Hatchling diseases in Atlantic ridley turtle (Lepidochelys kempi) and loggerhead turtle (Caretta caretta) in the Galveston Laboratory, National Marine Fisheries Service (Abstract). American Zoologist 19:659. No reprints available.

Leong, J. K., D. L. Smith, D. B. Revera, J. C. Clary III, D. H. Lewis, J. L. Scott and A. R. DiNuzzo. 1989. Health care and diseases of captive-reared loggerhead and Kemp's ridley sea turtles, p. 177-200. In: Caillouet, C. W., Jr. and A. M. Landry, Jr. (Editors), Proceedings of the First International Symposium on Kemp's Ridley Sea Turtle Biology, Conservation and Management, Texas A&M University, Sea Grant College Program, TAMU-SG-89-105, vi plus 260 p. Proceedings available from Texas A&M University, Sea Grant College Program, P. O. Box 1675, Galveston, Texas 77553-1675.

Leong, J. K., R. S. Wheeler and L. M. Lansford. 1980. Tolerance and responses of normal and diseased loggerhead turtles (Caretta caretta) to some chemotherapeutics. Proceedings of the World Mariculture Society 11:291-302. No reprints available.

Malone, R. and M. Guarisso. 1988. Waste characterization study for the Kemp's ridley sea turtle. NOAA Technical Memorandum NMFS-SEFC-200, iv plus 38 p. Available from NTIS (Accession No. PB88205463/AS).

Manzella, S. A. 1988. PIT tag central data registry. Marine Turtle Newsletter No. 43, p. 7-8. No reprints available.

Manzella, S. A., C. W. Caillouet and C. T. Fontaine. 1988. Kemp's ridley, Lepidochelys kempi, sea turtle head start tag recoveries: distribution, habitat and method of recovery.

Marine Fisheries Review 50(3):24-32. Available from the senior author.

Manzella, S. A., C. W. Caillouet, Jr., C. T. Fontaine, T. D. Williams, K. L. W. Indelicato, M. J. Duronslet, D. B. Revera, A. M. Landry, Jr. and E. K. Stabenau. 1988. Kemp's ridley head start and sea turtle research at the Galveston Laboratory: annual report - fiscal year 1987. NOAA Technical Memorandum NMFS-SEFC-201, 28 p. plus 20 Tables and 1 Appendix. Available from NTIS Accession No. PB88179858/AS).

Manzella, S. A., C. T. Fontaine and B. A. Schroeder. 1988. Loggerhead sea turtle travels from Padre Island, Texas to the mouth of the Adriatic Sea. Marine Turtle Newsletter No. 42, p.7. No reprints available.

Manzella, S. A., J. A. Williams and C. W. Caillouet, Jr. 1991. Radio and sonic tracking of juvenile sea turtles in inshore waters of Louisiana and Texas. NOAA Technical Memorandum (in press).

Manzella, S., J. Williams, B. Schroeder and W. Teas. 1991. Juvenile head started Kemp's ridleys found in floating grass mats. Marine Turtle Newsletter No. 52, p. 5-6. No reprints available.

McLellan, G. L. and J. K. Leong. 1981. A radiological method for examination of the gastrointestinal tract in the Atlantic ridley, Lepidochelys kempi, and loggerhead, Caretta caretta, marine turtles. U.S. Fishery Bulletin 78:965-968. No reprints available.

McLellan, G. L. and J. K. Leong. 1982. Radiologic evaluation of the differential absorption of diatrizoate in marine turtles. NOAA Technical Memorandum NMFS-SEFC-93, 15 p. Available from NTIS (Accession No. PB83138255/LP).

McVey, J. P. and T. Wibbels. 1984. The growth and movements of captive-reared Kemp's ridley sea turtles, Lepidochelys kempi, following their release in the Gulf of Mexico. NOAA Technical Memorandum NMFS-SEFC-145, 25 p., 3 Figures and 3 Tables. Available from NTIS (Accession No. PB85116390).

Plotkin, P. 1989. Feeding ecology of the loggerhead sea turtle in the northwestern Gulf of Mexico, p. 139-141. In: Eckert, S. A., K. L. Eckert and T. H. Richardson (Compilers), Proceedings of the Ninth Annual Worshop on Sea Turtle Conservation and Biology, NOAA Technical Memorandum NMFS-SEFC-232, 305 p. Available from NTIS (Accession No. PB90174384).

Plotkin, P. and A. F. Amos. 1988. Entanglement in and ingestion of marine debris by sea turtles stranded along the south Texas

Coast, p. 79-82. In: Schroeder, B. A. (Compiler), Proceedings of the Eighth Annual Workshop on Sea Turtle Conservation and Biology, NOAA Technical Memorandum NMFS-SEFC-214, 136 p. Available from NTIS (Accession No. PB89163083).

Renaud, M., G. Gitschlag, E. Klima, A. Shah, J. Nance, C. Caillouet, Z. Zein-Eldin, D. Koi and F. Patella. 1990. Evaluation of the impacts of turtle excluder devices (TEDs) on shrimp catch rates in the Gulf of Mexico and South Atlantic, March 1988 through July 1989. NOAA Technical Memorandum NMFS-SEFC-254, vi plus 165 p. Available from NTIS (Accession No. PB90267238/AS).

Rostal, D. C., J. A. Williams and P. J. Williams. 1991. Rathke's gland secretion by loggerhead (Caretta caretta) and Kemp's ridley (Lepidochelys kempi) sea turtles. *Copeia* 1991(4): (in press).

Shaver, D. J., D. W. Owens, A. H. Chaney, C. W. Caillouet, Jr., P. Burchfield and R. Marquez M. 1988. Styrofoam box and beach temperatures in relation to incubation and sex ratios of Kemp's ridley sea turtles, p. 103-108. In: Schroeder, B. A. (Compiler), Proceedings of the Eighth Annual Workshop on Sea Turtle Conservation and Biology, NOAA Technical Memorandum NMFS-SEFC-214, 136 p. Proceedings available from NTIS (Accession No. PB89163083).

Stabenau, E. K. 1988. Swimming speed and stamina in headstarted Kemp's ridley sea turtle (Lepidochelys kempi). MS Thesis, Texas A&M University, 95 p. and 7 Appendices. Available through interlibrary loan, Texas A&M University, College Station, Texas 77843.

Stabenau, E. K. and T. A. Heming. 1989. Trawl stress in Kemp's ridley sea turtles. *American Zoologist* 29, 139A (Abstract). No reprints available.

Stabenau, E. K., T. A. Heming and J. F. Mitchell. 1991. Respiratory, acid-base, and ionic status of Kemp's ridley sea turtle (Lepidochelys kempi) subjected to trawling. *Comparative Biochemistry and Physiology*, A 99(1/2):107-111. Available from the senior author.

Stabenau, E. K., M. King, A. M. Landry and C. W. Caillouet. 1988. Swimming performance of head started Kemp's ridley sea turtles, p. 113-117. In: Schroeder, B. A. (Compiler), Proceedings of the Eighth Annual Workshop on Sea Turtle Conservation and Biology, NOAA Technical Memorandum NMFS-SEFC-214, 136 p. Proceedings available from NTIS (Accession No. PB89163083).

Stabenau, E. K., C. G. Vanoye and T. A. Heming. 1990. $\text{HCO}_3^-/\text{Cl}^-$

exchange in Kemp's ridley sea turtle erythrocytes. The Physiologist 33(4): A-63 (Abstract No. 42.17). No reprints available.

Stanley, K. M., E. K. Stabenau and A. M. Landry. 1988. Debris ingestion by sea turtles along the Texas coast, p. 119-121. In: Schroeder, B. A. (Compiler), Proceedings of the Eighth Annual Workshop on Sea Turtle Conservation and Biology, NOAA Technical Memorandum NMFS-SEFC-214, 136 p. Proceedings available from NTIS (Accession No. PB89163083).

Thompson, N., T. Henwood, S. Epperly, R. Lohoefer, G. Gitschlag, L. Ogren, J. Mysing and M. Renaud. 1990. Marine turtle habitat plan. NOAA Technical Memorandum NMFS-SEFC-255, 20 p. Available from NTIS (Accession No. PB90272113).

Weldon, P. J. and J. A. Williams. 1988. Rathke's glands: pattern of secretion discharge and tests of antipredator activity (Abstract). American Zoologist 28(4):162A. Available from the senior author.

Weldon, P. J., J. A. Williams and D. C. Rostal. (1989). Rathke's glands: selective discharge and secretion production in loggerhead (Caretta caretta) and Kemp's ridley (Lepidochelys kempi) sea turtles. Journal of Marine Behavioral Physiology. Available from the senior author.

Wibbels, T. A. 1984. Orientation characteristics of immature Kemp's ridley sea turtles, Lepidochelys kempi. NOAA Technical Memorandum NMFS-SEFC-131, iv plus 67 p. Available from NTIS (Accession No. PB84220409).

Williams, J. A. and S. A. Manzella. (1991). Sea turtle sighting signs on the Texas gulf coast. Proceedings of the Tenth Annual Workshop on Sea Turtle Conservation and Biology, NOAA Technical Memorandum (in press).